



ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of
Invention

INTERACTIVE THREE-DIMENSIONAL MULTIMEDIA I/O
DEVICE FOR A COMPUTER

Application Number: 10/604387

Confirmation Number: 1386

First Named Applicant: Sandra Carr

Attorney Docket Number: P03049101

Search string: (6560511 or 6544098 or 6537152 or 6537128
or 6519506 or 6514117 or 6512965 or 6505098
or 6497607 or 6497605 or 6493606 or 6480761
or 6476714 or 6471565 or 6466844 or 6463257
or 6462498 or 6353773 or 5158493 or
20020120362 or 20020116091 or
20010041496).pn.

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TECHNOLOGY CENTER R6700

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
449	1	6560511	2003-05-06	Yokoo et al	B1	G06F	19/00
	2	6544098	2003-04-08	Hampton et al	B1	A63H	3/28
	3	6537152	2003-03-25	Seelig et al	B2	A63F	13/00
	4	6537128	2003-03-25	Hampton et al	B1	A63H	3/28
	5	6519506	2003-02-11	Osawa	B2	G06F	19/00
	6	6514117	2003-02-04	Hampton et al	B1	A63H	3/28
	7	6512965	2003-01-28	Osawa	B2	G06F	19/00
	8	6505098	2003-01-07	Sakamoto et al	B1	G06F	19/00
	9	6497607	2002-12-24	Hampton et al	B1	A63H	3/28
	10	6497605	2002-12-24	Cummings et al	B1	A63H	3/28
	11	6493606	2002-12-10	Saijo et al	B2	G05B	19/00
	12	6480761	2002-11-12	Ueno et al	B2	G06F	19/00
	13	6476714	2002-11-05	Mizuta	B2	B60Q	1/00
	14	6471565	2002-10-29	Simeray	B2	A63H	3/28
	15	6466844	2002-10-15	Ikeda et al	B1	G06F	19/00

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16	6463257	2002-10-08	Wood	B1	G09B	5/00
17	6462498	2002-10-08	Filo	B1	B25J	5/00
18	6353773	2002-03-05	Takenaka	B1	G06F	19/00
19	5158493	1992-10-27	Morgrey		A63H	11/18

US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

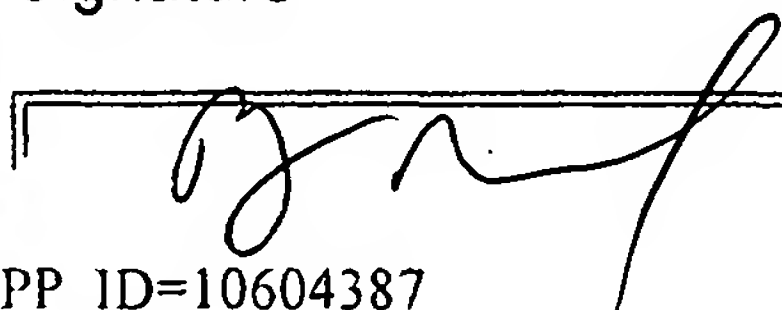
init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
ref	1	20020120362	2002-09-29	Lathan et al	A1	G06F	19/00
I	2	20020116091	2002-08-22	Yamamoto	A1	G06F	19/00
I	3	20010041496	2001-11-15	Smirnov	A1	A63F	3/28

Remarks

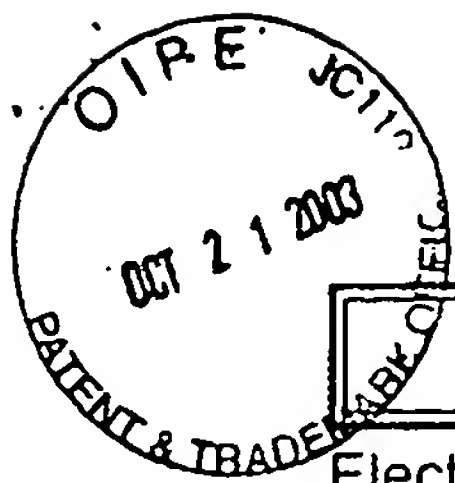
Note: Remarks are not for responding to an office action.

6560511 to Yokoo et al. discloses an electronic pet. 6544098 to Hampton et al. discloses an interactive toy. 6537152 to Seelig et al. discloses a gaming device with an animated figure. 6537128 to Hampton et al. discloses an interactive toy. 6519506 to Osawa discloses an emotion control system for a toy robot. 6514117 to Hampton et al. discloses an interactive toy. 6512965 to Osawa discloses a control system for a robot. 6505098 to Sakamoto et al. discloses a robot system and cover. 6497607 to Hampton et al. discloses an interactive toy. 6497605 to Cummings et al. discloses a multilingual doll. 6493606 to Saijo et al. discloses a motion control system for a robot. 6480761 to Ueno et al. discloses a mobile battery operated robot. 6476714 to Mizuta discloses a vehicle communication system. 6471565 to Simeray discloses an interactive child's toy. 6466844 to Ikeda et al. discloses a conventional computer controlled manufacturing system. 6463257 to Wood discloses an interactive educational toy. 6462498 to Filo discloses a mobile robotic toy. 6353773 to Takenaka discloses a mobile robot which is remotely controlled by an operator. 5158493 to Morgrey discloses a mobile robot which is remotely controlled. Patent Application Publication 20020120362 to Lathan et al. discloses a wireless communication system which controls a robotic apparatus. Patent Application Publication 20020116091 to Yamamoto discloses a system for controlling posture positions in robots. Patent Application Publication 20010041496 to Smirnov discloses a talking toy.

Signature


 11/27/05

Examiner Name	Date
RYAN PITARD	4/27/05



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Title of Invention	INTERACTIVE THREE-DIMENSIONAL MULTIMEDIA I/O DEVICE FOR A COMPUTER																																																																														
<p>Application Number: 10/604387 </p> <p>Confirmation Number: 1386</p> <p>First Named Applicant: Sandra Carr</p> <p>Attorney Docket Number: P03049101</p> <p>Search string: (6604980 or 6579143 or 6571141 or 6570555 or 6554706 or 6554616 or 6553410 or 6546436 or 6542925 or 6537074 or 6516236 or 6497604 or 6483906 or 6480896 or 6466971 or 6466145 or 6460851 or 6454625 or 6421524 or 6394872 or 6375572 or 6375535 or 6362589 or 6358111 or 6352478 or 6319010 or 6309275 or 6290566 or 6290565 or 6281820 or 6257948 or 6256378 or 6246420 or 6220865 or 6206745 or 6160986 or 6064854 or 6064421 or 6054999 or 6046727 or 6017261 or 5870842 or 5855483 or 5752880 or 5746602 or 5741136 or 5734794 or 5733131 or 5701400 or 5700178 or 5673369 or 5664469 or 5647787 or 5636994 or 5613909 or 5407376 or 5324225 or 5289273 or 5288078 or 5142803 or 5021878 or 4923428 or 4846693 or 4840602 or 4802879 or 4717364).pn.</p>																																																																															
<h2>US Patent Documents</h2> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td>KPP</td><td>1</td><td>6604980</td><td>2003-08-12</td><td>Jurmain et al.</td><td>B</td><td>A63H</td><td>3/28</td></tr><tr><td>/</td><td>2</td><td>6579143</td><td>2003-06-17</td><td>Rehkemper et al.</td><td>B</td><td>A63H</td><td>11/00</td></tr><tr><td></td><td>3</td><td>6571141</td><td>2003-06-17</td><td>Brown</td><td>B</td><td>G05B</td><td>19/42</td></tr><tr><td></td><td>4</td><td>6570555</td><td>2003-05-27</td><td>Prevost et al.</td><td>B</td><td>G09G</td><td>5/00</td></tr><tr><td></td><td>5</td><td>6554706</td><td>2003-04-29</td><td>Kim</td><td>B</td><td>A63F</td><td>13/00</td></tr><tr><td></td><td>6</td><td>6554616</td><td>2003-04-29</td><td>Love</td><td>B</td><td>G09B</td><td>19/06</td></tr><tr><td></td><td>7</td><td>6553410</td><td>2003-04-22</td><td>Kikinis</td><td>B</td><td>G06F</td><td>13/00</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>								init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass	KPP	1	6604980	2003-08-12	Jurmain et al.	B	A63H	3/28	/	2	6579143	2003-06-17	Rehkemper et al.	B	A63H	11/00		3	6571141	2003-06-17	Brown	B	G05B	19/42		4	6570555	2003-05-27	Prevost et al.	B	G09G	5/00		5	6554706	2003-04-29	Kim	B	A63F	13/00		6	6554616	2003-04-29	Love	B	G09B	19/06		7	6553410	2003-04-22	Kikinis	B	G06F	13/00								
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8	6546436	2003-04-08	Fainmesser et al.	B	G06F	13/14
9	6542925	2003-04-01	Brown et al.	B	G06F	15/16
10	6537074	2003-03-25	Jurmain et al.	B	A63H	3/28
11	6516236	2003-02-04	Brown et al.	B	G05B	19/18
12	6497604	2002-12-24	Fong et al.	B	A63H	3/28
13	6483906	2002-11-19	Iggulden et al.	B	H04M	11/00
14	6480896	2002-11-12	Brown et al.	B	G06F	15/16
15	6466971	2002-10-15	Humpleman et al.	B	G06F	15/177
16	6466145	2002-10-15	Fields	B	H03M	1/00
17	6460851	2002-10-08	Lee et al.	B	A63F	3/00
18	6454625	2002-09-24	Fong et al.	B	A63F	3/28
19	6421524	2002-07-16	Padgett	B	G09B	5/00
20	6394872	2002-05-28	Watanabe et al.	B	A63H	30/00
21	6375572	2002-04-23	Masuyama et al.	B	A63F	9/22
22	6375535	2002-04-23	Fong et al.	B	A63H	3/28
23	6362589	2002-03-26	Inoue et al.	B	G05B	15/02
24	6358111	2002-03-19	Fong et al.	B	A63H	3/28
25	6352478	2002-03-05	Gabai et al.	B	A63F	9/24
26	6319010	2001-11-20	Kikinis	B	G09B	5/00
27	6309275	2001-10-30	Fong et al.	B	A63H	3/28
28	6290566	2001-09-18	Gabai et al.	B	A63H	30/00
29	6290565	2001-09-18	Galyean III et al.	B	A63F	9/24
30	6281820	2001-08-28	Fields	B	H03M	1/00
31	6257948	2001-07-10	Silva	B	A63H	3/16
32	6256378	2001-07-03	Iggulden et al.	B	H04M	11/00
33	6246420	2001-06-12	Mochizuki et al.	B	G06T	13/00
34	6220865	2001-04-24	Macri et al.	B	A63B	69/00
35	6206745	2001-03-27	Gabai et al.	B	A63H	33/04
36	6160986	2000-12-12	Gabai et al.		G09B	5/00
37	6064854	2000-05-16	Peters et al.		H04N	7/14
38	6064421	2000-05-16	Pohl		H04N	7/14
39	6054999	2000-04-25	Strandberg		G06T	15/70
40	6046727	2000-04-04	Rosenberg et al.		G09G	5/00
41	6017261	2000-01-25	Wachtel		A63H	3/28
42	5870842	1999-02-16	Ogden et al.		G09F	19/08
43	5855483	1999-01-05	Collins et al.		G09B	3/00

APP	44	5752880	1998-05-19	Gabai et al.	A63F	9/22
	45	5746602	1998-05-05	Kikinis	G09B	5/00
	46	5741136	1998-04-21	Kirksey et al.	G09B	5/00
	47	5734794	1998-03-31	White	G10L	9/06
	48	5733131	1998-03-31	Park	G09B	5/00
	49	5701400	1997-12-23	Amado	G06F	15/18
	50	5700178	1997-12-23	Cimerman et al.	A63H	3/20
	51	5673369	1997-09-30	Kim	G06F	17/00
	52	5664469	1997-09-09	Lee	G06F	17/00
	53	5647787	1997-07-15	Raviv et al.	A63H	30/00
	54	5636994	1997-06-10	Tong	G09B	5/06
	55	5613909	1997-03-25	Stelovsky	A63F	9/22
	56	5407376	1995-04-18	Avital et al.	A63H	30/00
	57	5324225	1994-06-28	Satoh et al.	A63H	3/28
	58	5289273	1994-02-22	Lang	A63H	13/00
	59	5288078	1994-02-22	Cappet et al.	A63F	9/22
	60	5142803	1992-09-01	Lang	A63H	13/00
	61	5021878	1991-06-04	Lang	H04N	7/18
	62	4923428	1991-05-08	Curran	A63H	30/00
	63	4846693	1989-07-11	Baer	G09B	50/60
	64	4840602	1989-06-20	Rose	A63H	30/00
	65	4802879	1989-02-07	Rissman et al.	A63H	3/16
	66	4717364	1988-01-05	Furukawa	A63H	11/10

Remarks

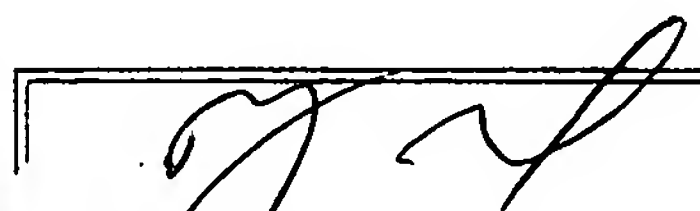
Note: Remarks are not for responding to an office action.

The following patents were provided by the Inventors for the Examiner's review. 6604980 to Jurmain et al. discloses a doll used to simulate an infant. The doll signals the caretaker when an action must be taken by the caretaker. 6579143 to Rehkemper et al. discloses a mechanically animated doll. 6571141 to Brown discloses a security system for controlling access to device motion control systems. 6570555 to Prevost et al. discloses a computer system that uses an interface to communicate with user's that is based on social rules. 6554706 to Kim discloses a motion sensing system that compares the motion of an individual with the motion of a second individual. 6554616 to Love discloses a bilingual talking doll for teaching young children words from a second language. 6553410 to Kikinis discloses a data distribution system. One

embodiment discloses a computer controlled toy that interacts with users. 6546436 to Fainmesser et al. discloses a computer system that controls one or more toys. 6542925 to Brown et al. discloses a command distribution system for controlling motion control devices. 6537074 to Jurmain et al. discloses a doll used to simulate an infant. The doll signals the caretaker when an action must be taken by the caretaker, and records the response time taken by the caretaker. 6516236 to Brown et al. discloses a motion control system. 6497604 to Fong et al. discloses interactive dolls that respond to one another. 6483906 to Iggulden et al. discloses a method of remotely setting software parameters in a local device. 6480896 to Brown et al. discloses a command distribution system for controlling motion control devices. 6466971 to Humpleman et al. discloses a system that provides device to device command and control. 6466145 to Fields discloses a method of transferring data to a remote sensor by modulating display luminance. 6460851 to Lee et al. discloses a board structure that allows game pieces to be positioned on it. The board structure is attached to a computer which makes game decisions based on the location of the individual pieces on the board. 6454625 to Fong et al. discloses interactive dolls that respond to one another. 6421524 to Padgett discloses a talking book. 6394872 to Watanabe et al. discloses a toy doll that responds to a human voice. 6375572 to Masuyama et al. discloses an electronic game with a motion sensor. 6375535 to Fong et al. discloses interactive dolls that respond to one another. 6362589 to Inoue et al. discloses a toy robot. 6358111 to Fong et al. discloses interactive dolls that respond to one another. 6352478 to Gabai et al. discloses an amusement park attraction which uses computer controlled characters that interact with an individual passing through, and interacting with, the characters in the attraction. 6319010 to Kikinis discloses a computer controlled toy doll that can be used for entertainment or educational purposes. 6309275 to Fong et al. discloses interactive dolls that respond to one another. 6290566 to Gabai et al. discloses a computer controlled toy that interacts with players using audio data. The device is capable of inputting to audio to an associated computer in a first language and outputting audio in a second language. 6290565 to Galyean III et al. discloses a computer controlled toy that can be modified by the user. The modifications are detected by the computer which uses those modifications to alter an image of a game character on a display screen. 6281820 to Fields discloses a method of transferring data to a remote sensor by modulating display luminance. 6257948 to Silva discloses a talking toy. 6256378 to Iggulden et al. discloses a method of remotely setting software parameters in a local device. 6246420 to Mochizuki et al. discloses a computerized motion control system. 6220865 to Macri et al. discloses a computerized sports training system that simulates actual play conditions. 6206745 to Gabai et al. discloses a computer controlled toy that interacts with players using audio data. The toy is comprised of a plurality of elements (e.g., Lego (TM) components, etc.) that may be assembled into any one of a number of structures. The assembled structure can then be controlled by a computer. 6160986 to Gabai et al. discloses an interactive toy. The

toy is able to receive audio input from a user, determine the content of the audio input using speech recognition, and output audio data to the user. 6064854 to Peters et al. discloses a computer controlled entertainment/educational character that interacts with its environment using audio and video data. 6064421 to Pohl discloses a doll with communications capability. 6054999 to Strandberg discloses a computer system that uses animated characters. 6046727 to Rosenberg et al. discloses a computerized motion sensing and control system. 6017261 to Wachtel discloses an animated figure that is mounted on a base. 5870842 to Ogden et al. discloses an animatronic motion control system. 5855483 to Collins et al. discloses a computer controlled console that can be used for entertainment purposes. 5752880 to Gabai et al. discloses a computer controlled toy system that uses one or more interactive dolls. The dolls can communicate with the computer or with each other. 5746602 to Kikinis discloses a computer controlled toy doll that can be used for entertainment or educational purposes. 5741136 to Kirksey et al. discloses an audio/video system that displays typed words in combination with images and audio that presents the spoken word. 5734794 to White discloses a computer system that uses audio data to select images. 5733131 to Park discloses a computer controlled toy doll that can be used for entertainment or educational purposes. 5701400 to Amado discloses an artificial intelligence system. 5700178 to Cimerman et al. discloses a toy doll that displays different emotional expressions by moving the eyes and lips. 5673369 to Kim discloses an artificial intelligence system. 5666469 to Lee discloses an artificial intelligence system. 5647787 to Raviv et al. discloses a toy doll that responds to voice commands. 5636994 to Tong discloses a computer controlled toy doll that can be used for entertainment or educational purposes. 5613909 to Stelovsky discloses a multimedia game. 5407376 to Avital et al. discloses an eye mechanism for a toy doll that displays different emotional expressions by moving the eyes in response to a voice. 5324225 to Satoh et al. discloses a sound activated interactive toy. 5289273 to Lang discloses a computer that remotely controls a robot device. 5288078 to Capper et al. discloses a motion sensing system that allows touchless control of video games. 5142803 to Lang discloses a computer that remotely controls a robot device. 5021878 to Lang discloses a computer that remotely controls a robot device. 4923428 to Curran discloses an interactive talking toy that responds to a human. 4846693 to Baer discloses a computer controlled toy doll that can be used for entertainment or educational purposes. 4840602 to Rose discloses a talking toy doll that responds to remote signals such as signals transmitted from a television. 4802879 to Rissman et al. discloses a toy doll with a display monitor in the torso that display life function images such as a heart beating. 4717364 to Furukawa discloses a toy doll that responds to voice commands.

Signature

 11/28/05

Examiner Name	Date
Ryan Pitaro	11/27/05



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Application Number	10/604,387
Filing Date	July 16, 2003
First Named Inventor	Sandra Carr
Art Unit	
Examiner Name	
Attorney Docket Number	P03049101

Sheet 1 of 2

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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		US-			
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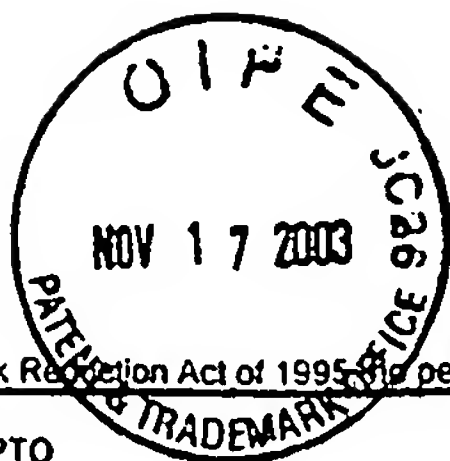
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Applicati n Number	10/604,387
Filing Date	July 16, 2003
First Named Inventor	Sandra Carr
Art Unit	
Examiner Name	
Attorney Docket Number	P03049101

NON PATENT LITERATURE DOCUMENTS			
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REP	1	STEVE BEHRENS, "We'll Look Back on This Old Barney: An Early Input-Output Gizmo You Could Hug," Internet Article, 1/19/1998	
REP	2	KAMINSKY et al., "Sweetpea: Software Tools for Programmable Embodied Agents," Internet Article, 5/15/1999	
REP	3	KATE EHRLICH et al., "Reviews for the Sweetpea Paper," Internet Article, 5/15/1999	
REP	4	MARK TREGLOWN, "Go Ahead and Jump-Using Syndetic Modelling to Think Formally about Play and the Usability of an Electronic Lifeform," Internet Article, 6/22/1999	
REP	5	GOOSE et al., "Streaming Speech3: A Framework for Generating and Streaming 3D Text-to-Speech and Audio Presentations to Wireless PDSS as Specified Using Extensions to SMIL," Internet Article, 5/7/2002	
REP	6	JAKOB NEILSEN, "Making the Physical Environment Interactive," Internet Article, 8/5/2002	
REP	7	SAUL GREENBERG et al., "An Overview of Phidgets," Internet Article, 10/27/2002	
REP	8	SAUL GREENBERG et al., "Phidgets: Easy Development of Physical Interfaces through Physical Widgets," Internet Article, 10/27/2002	

Examiner Signature		Date Considered	11/27/05
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